# SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

**COMMENTS:** 

SDG <u>06I-0132-02</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete

Partial

300 Area 303M Bldg







#### Cover Page

Report Identification Number:

06I-0132-02

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist:

Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

**DCHM** 

SAF#: RC-001 / R303M0 J451

Payroll#: 73513



**Sample Information** 

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
10 Jan 2006	J10RT0	06I00921	NMAM 7300M	G060D00W	G WIPE
10 Jan 2006	J10WP0	06I00922	NMAM 7300M	G060D00W	G WIPE
10 Jan 2006	J10RM1	06100923	NMAM 7300M	G060D00W	G WIPE
10 Jan 2006	J10RM2	06I00924	NMAM 7300M	G060D00W	G WIPE

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Name: Lisa M. Reid Title: Chemist

Date: January 16, 2006





### Case Narrative Page

Report Identification Number: 06I-0132-02

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303M0 J451

Payroll#: 73513

General Set Information: There are 4 samples in set 06I-0132-02 and 3 samples in set 06I-0133-01. The samples were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

**Holding Times:** The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of  $\pm$  10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.07 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 2. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

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**Dilution(s):** None





### Case Narrative Page

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of ± 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

**Sample Calculation:** The final results are calculated by the following equation:

Final result for aqueous samples ( $\mu$ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ( $\mu g/L$ )

B = Concentration factor from sample preparation

= Final Volume of Digestate (L)

Sample

C = Dilution performed at time of analysis

Example Calculation:  $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$ 

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Miscellaneous Comments: None



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## Report Page

Report Identification Number: 06I-0132-02

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303M0 J451

Payroll#: 73513

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sampl	- 1	Cadmiun μg/sampl	- 1	Lead μg/sampl	e
J10RT0	06I00921	13 Jan 2006	< 0.01	U	< 0.07	U	4.9	
J10WP0	06100922	13 Jan 2006	< 0.01	U	< 0.07	Ü	3.6	
J10RM1	06I00923	13 Jan 2006	< 0.01	U	< 0.07	U	<2.	_
J10RM2	06I00924	13 Jan 2006	< 0.01	U	< 0.07	U	<2.	U
	0.	.01	0	.07		2.		
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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





### QC Summary Page

Report Identification Number: 06I-0132-02

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R303M0 J451

Payroll#: 73513

Batch ID: G060D00W

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240031-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
BL-240031-1	MB	Cadmium	μg/sample	ND	NA	NA	NA	NA
BL-240031-1	MB	Lead	μg/sample	ND	NA	NA	NA_	NA
QC-240031-1	LCS	Beryllium	μg/sample	10.8	NA	10.0	108.	NA
QC-240031-1	LCS	Cadmium	μg/sample	32.0	NA	30.0	107.	NA
QC-240031-1	LCS	Lead	μg/sample	98.7	NA	100.	98.7	NA
QD-240031-1	LCSD	Beryllium	μg/sample	11.0	10.8	10.0	110.	1.88
QD-240031-1	LCSD	Cadmium	μg/sample	32.7	32.0	30.0	109.	2.09
QD-240031-1	LCSD	Lead	μg/sample	102.	98.7	100.	102.	2.92

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) \* 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) \* 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) \* 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|)/((MS + MSD)/2.0)) \* 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) \* 100

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### **COC** Page

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DataChem Laboratories, Inc. 960 West Levoy Drive Salt Lake City, Utah 84123-2547 Phone: (801) 266-7700 FAX: (801) 268-9992 Web Page: www.datachem.com E-mail: lab@datachem.com

WCH-SH-202 (08/29/2005)

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Payroll #: 13513 Type of Sample: Airborne £	·	Sampling Location BOD Area  BOB M Building  ANALYSIS					i	SAF No. RC-001  Method of Shipment					-
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